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Synthesis of 1,1,1,3,3-pentafluoropropane

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Patent Number: ☒ EP0703205, B1

Publication date: 1996-03-27

Inventor(s): WENDLINGER LAURENT (FR); LANTZ ANDRE (FR)

Applicant(s): ATOCHEM ELF SA (FR)

Requested Patent: AU3284395

Application Number: EP19950401917 19950821

Priority Number(s): FR19940011451 19940926

IPC Classification: C07C17/20; C07C19/08

EC Classification: C07C17/20D4

EC Classification: C07C17/20D4+19/08

Equivalents: CA2159063, CN1130614, DE69501534D, ☐ FR2724928,  
☐ JP8104655

Cited Documents: EP0522639

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**Abstract**

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Prepn. of 1,1,1,3,3-pentafluoropropane by a liq. phase reaction of 1,1,1,3,3-pentachloropropane with anhydrous HF in the presence of a catalyst.

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**Process for the preparation of 1-chloro-1,1,3,3,3-pentafluoropropane and of 1,1,1,3,3,3-hexafluoropropane**

**Process for the preparation of 1-chloro-1,1,3,3,3-pentafluoropropane and of 1,1,1,3,3,3-hexafluoropropane**

Patent Number: EP0522639  
Publication date: 1993-01-13  
Inventor(s): PENNETREAU PASCAL (BE)  
Applicant(s): SOLVAY (BE)  
Requested Patent: ☒ EP0522639, B1  
Application Number: EP19920201999 19920702  
Priority Number(s): BE19910000658 19910710  
IPC Classification: C07C17/20; C07C19/08  
EC Classification: C07C17/20D4, C07C17/278, C07C19/08  
EC Classification: C07C17/20D4+19/08; C07C17/20D4+19/10; C07C17/278+19/01; C07C19/08  
Equivalents: ☐ BE1005096, CA2073533, DE69202207D, DE69202207T, ES2074328T, JP3130657B2, ☐ JP5201892  
Cited Documents: WO9008754; FR1319071; EP0187643

**Abstract**

The invention relates to a process for the preparation of 1-chloro-1,1,3,3,3-pentafluoropropane and 1,1,1,3,3,3-hexafluoropropane by reaction in the liquid phase of 1,1,1,3,3,3-hexachloropropane with hydrogen fluoride in the presence of a catalyst.

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Process for the preparation of 1,1,1,3,3-pentafluoropropane

Process for the preparation of 1,1,1,3,3-pentafluoropropane

Patent Number: EP0611744  
Publication date: 1994-08-24  
Inventor(s): BIELEFELDT DIETMAR DR (DE); LUI NORBERT DR (DE); MARHOLD ALBRECHT DR (DE)  
Applicant(s): BAYER AG (DE)  
Requested Patent: ☒ EP0611744, B1  
Application Number: EP19940101811 19940207  
Priority Number(s): DE19934305164 19930219  
IPC Classification: C07C17/00; C07C19/08  
EC Classification: C07C17/23  
EC Classification: C07C17/23+19/08  
Equivalents: ☐ BR9400604, ☐ DE4305164, ES2093458T, ☐ JP6256235,  
MX9401224  
Cited Documents: EP0442075

#### Abstract

1,1,1,3,3-Pentafluoropropane is prepared in a particularly advantageous manner by subjecting 1,1,1,3,3-pentafluoro-2-dichloropropane or 1,1,1,3,3-pentafluoro-2,2,3-trichloropropane or any mixtures of these to catalytic hydrogenation.

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**Synthesis of 1,1,1,3,3-pentafluoropropane****Synthesis of 1,1,1,3,3-pentafluoropropane**

Patent Number: EP0703205  
Publication date: 1996-03-27  
Inventor(s): WENDLINGER LAURENT (FR); LANTZ ANDRE (FR)  
Applicant(s): ATOCHEM ELF SA (FR)  
Requested Patent: ☒ EP0703205, B1  
Application Number: EP19950401917 19950821  
Priority Number(s): FR19940011451 19940926  
IPC Classification: C07C17/20; C07C19/08  
EC Classification: C07C17/20D4  
EC Classification: C07C17/20D4+19/08  
Equivalents: AU3284395, CA2159063, CN1130614, DE69501534D, ☐ FR2724928,  
☐ JP8104655  
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**Abstract**

Prepn. of 1,1,1,3,3-pentafluoropropane by a liq. phase reaction of 1,1,1,3,3-pentachloropropane with anhydrous HF in the presence of a catalyst.

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